

—“TUAV-Protecting the Point”—

# Tactical Unmanned Aerial Vehicle Project Office Overview

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# Agenda



—“TUAV-Protecting the Point”—

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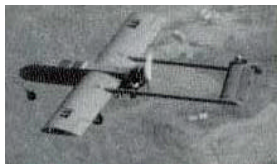
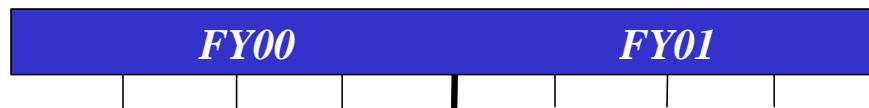
- Overview
- Hunter System
- TUAV
- Summary



# Activity Overview



— “TUAV-Protecting the Point” —



## Brigade TUAV Competition and Development

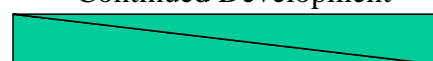


System Capability  
Demonstration

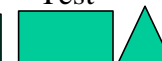


Award

Continued Development

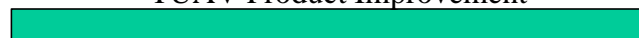


Operational  
Test



Production  
Decision

TUAV Product Improvement



## Hunter



Fort Hood



Balkans



Fort Polk



Fort Huachuca



and Exercises/Demos

Mission Payload, Tactics,  
Techniques, Procedures and Development







# TUAV

## Hunter Short Range UAV



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**Mission:** Division and Corps Level reconnaissance, surveillance, target acquisition, and battle damage assessment



### **Characteristics/Description:**

Wing Span	29 Feet
Weight	1600 Lbs
Range	>200KM
Airspeed	90 Kts cruise (106 Kts Dash)
Altitude	15,000 Ft
Endurance	8-12 Hours
Payload (s)	EO/IR
Launch/Recovery	200M x 75M (Unimproved)

### **Capability/Improvements:**

- Fully Qualified System
- Versatile Payload Platform
- Multiple Mission Configurations
- CLS Depot Maintenance & Supply in Place
- Stellar NTC/JRTC Performance
- Low mishap rate

### **Contractors:**

- TRW (Prime) / IAI

### **Status:**

- Acquisition terminated by DAE on 31 Jan 96
  - 7 LRIP Systems produced
- One System Fielded to III Corps, Fort Hood
- One System in Training Base, Fort Huachuca
- One System to JRTC Jun 99



# RQ-5A Hunter Deployment

## Task Force Able Sentry A/15 MI (AEB)



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- Deployed 29 March from Fort Hood
- Based from Skopje, Macedonia
- Began flight operations over Kosovo 4 April
- More than 3500 flight hours through September
- System performance and reliability – Excellent
- Forward Depot set up in Germany
- System augmented to total of 12 AVs plus additional ground stations
  - Many missions are relay mode
  - Able to support 2 simultaneous missions – 24 hour operations
- Return to Fort Hood – this Fall



# Tactical Unmanned Aerial Vehicle



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## Army Goal: A Single UAV System

### Step 1: Field a capable Maneuver Brigade Commander's UAV as quickly as possible

- Simple, Basic EO/IR (no bells or whistles)
- Operating in an Army XXI environment
- Meets situational awareness needs
- Part of the triad (Scouts, ACT, UAV) -- allows us to reduce combat power in the heavy division

Best Value  
System Meeting  
KPPs

Off-the-  
Shelf

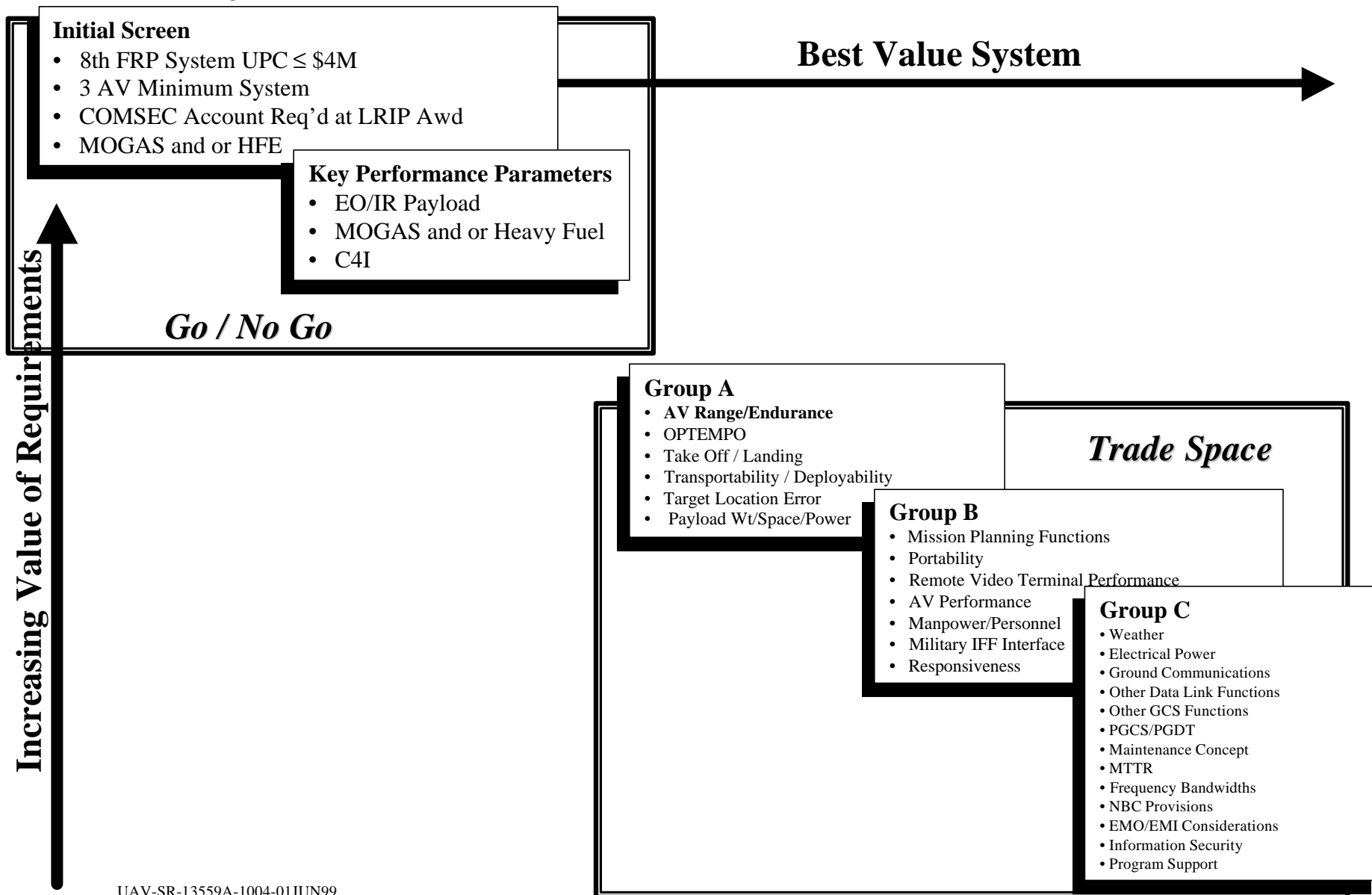
Later Growth  
to Objective  
Capability



# Best Value Approach TUA V Competition



“TUA V-Protecting the Point”



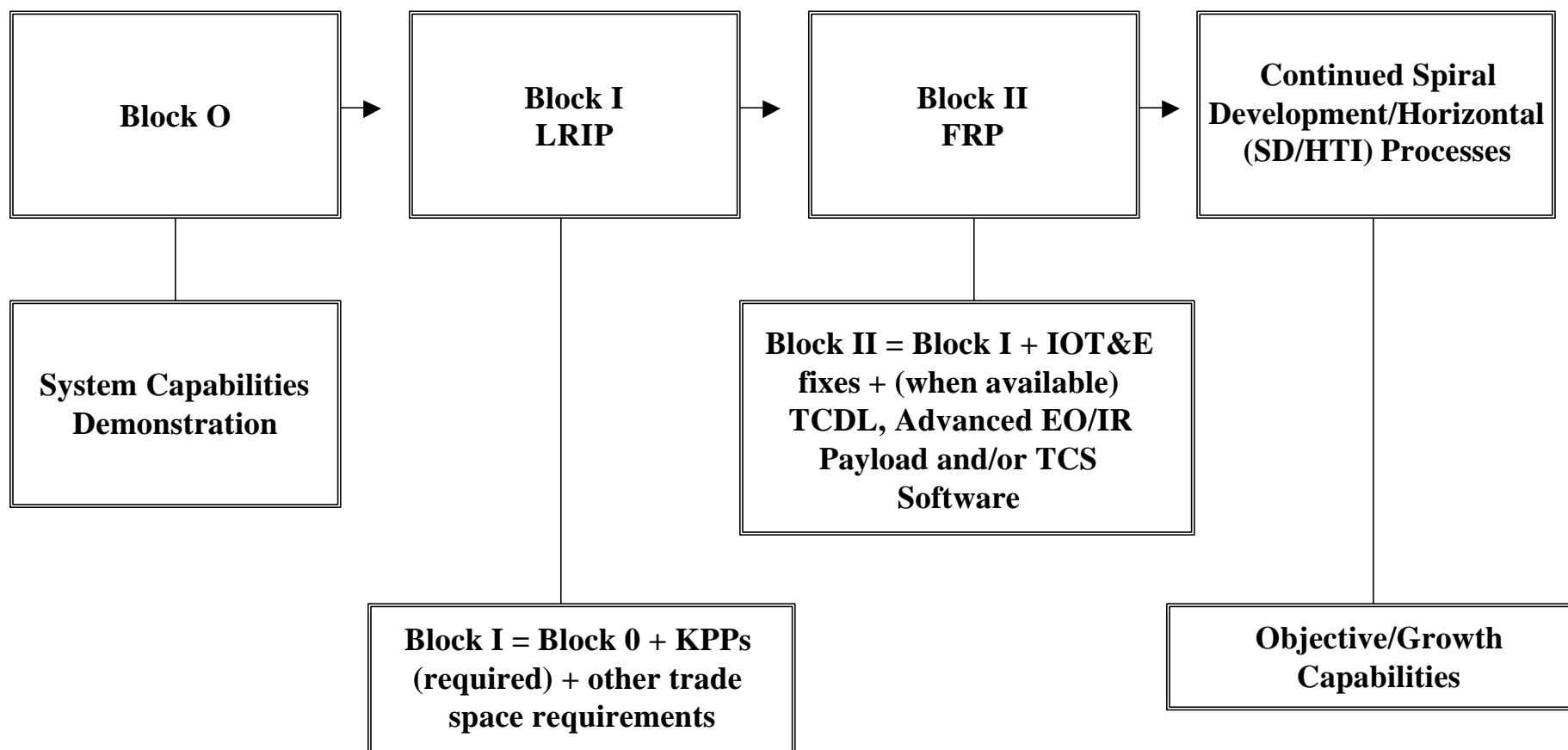


# TUAV



## Block Upgrade Approach

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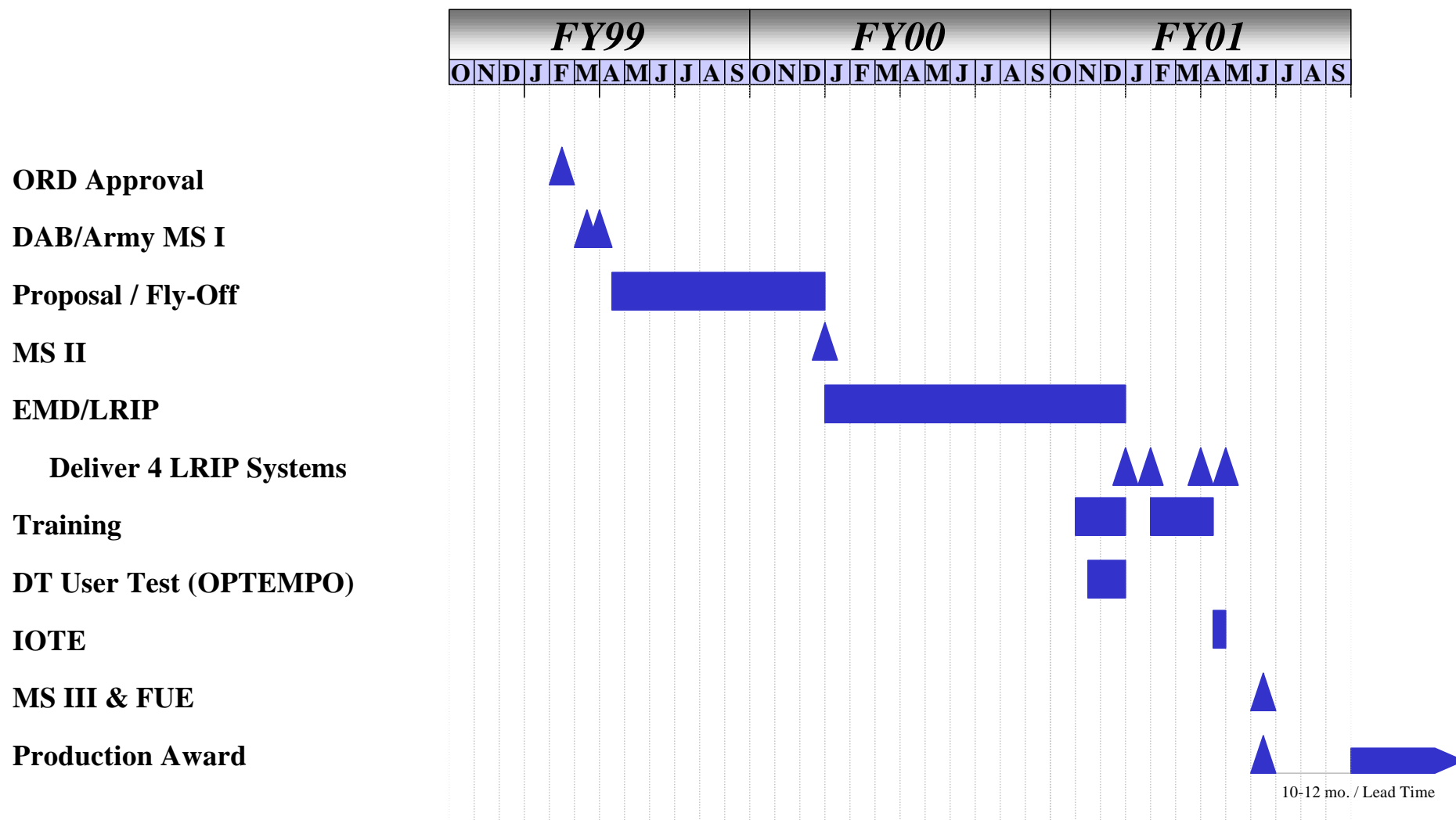




# TUAV Schedule



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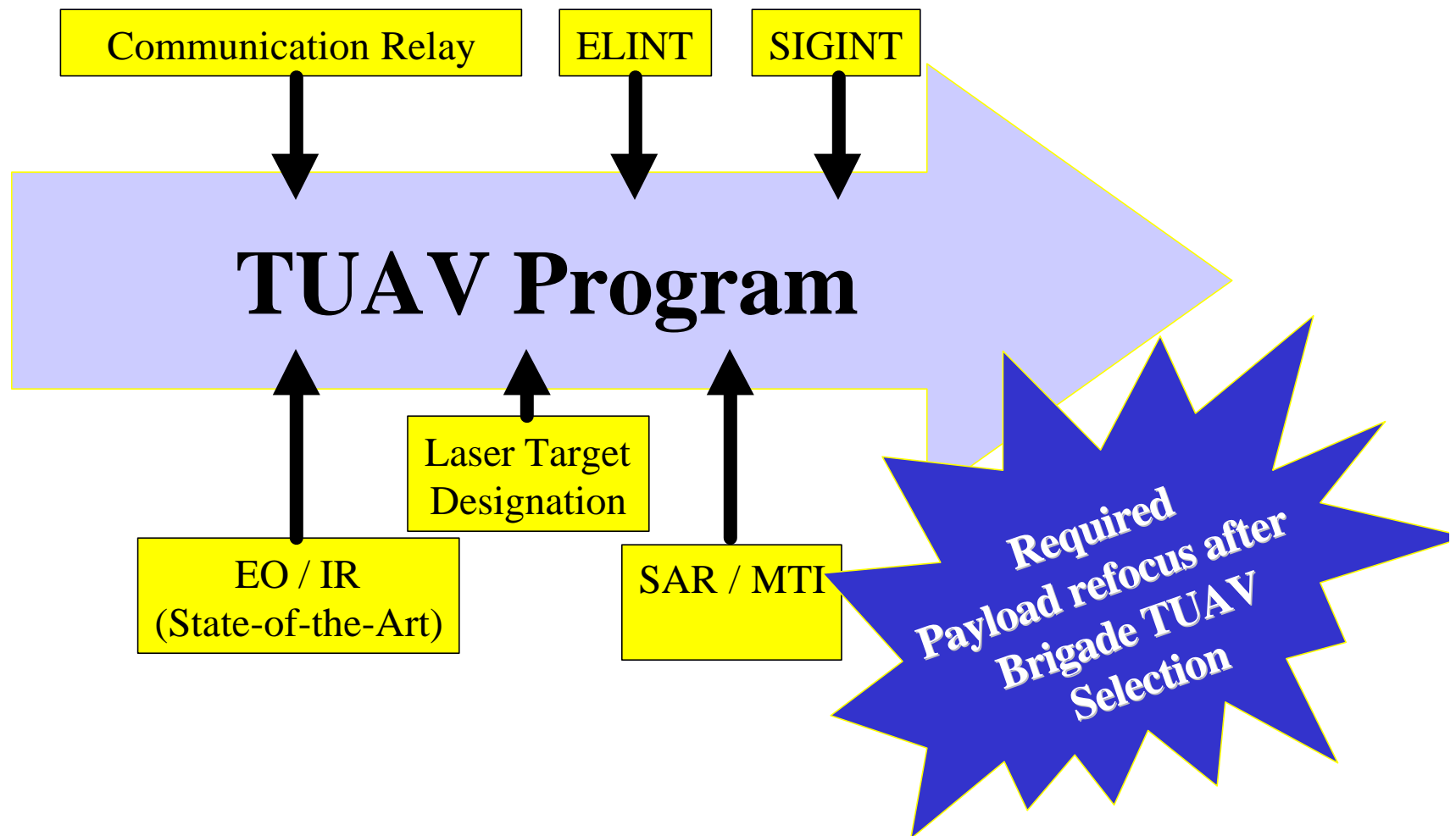


# Payload Integration Strategy



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Payload priority + Technology Availability (Payload, Airframe)  $\Rightarrow$  Payload Development





# Summary



— *"TUAV-Protecting the Point"* —

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- Now....providing a UAV capability with existing Hunter resources
- For the future.....satisfy the Maneuver Brigade Commander's UAV needs - Competitive Procurement in process
- For the future ....are using legacy systems to define/develop
  - TUAV TTP
  - Combined Arms TTP (with TUAV)
  - Product Improvements